AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
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Biographical Sketch

William Harrison
2008-09, President
American Society of Heating, Refrigerating
and Air-Conditioning Engineers

William Harrison is president, Trane Arkansas, Little Rock, Ark.

As ASHRAE's president, Harrison directs the Society's Board of Directors and oversees the Executive Committee. His presidential theme, *Maintain to Sustain – Delivering ASHRAE's Sustainability Promise,* focuses on operating buildings to deliver the energy efficiency inherent in their design, including effective commissioning, improved documentation, and programs to educate and certify building operators.

"If the studies are accurate, we have a no-regrets method to reduce energy use in buildings by 10 to 40 percent, solely by improving building operations," Harrison said. "All we have to do is communicate and educate more effectively. It is our duty. We are pledged to deliver ASHRAE's promise of sustainability, and to do that we must maintain to sustain, we must train to sustain, and we must influence the operation of our buildings to conserve energy. "

He also is chair of the Headquarters Building Renovation Committee. He has served as president-elect, treasurer, vice president, Region VIII director and regional chair, chair of Member Council, Technology Council and the Finance Committee, a member of the Nominating Committee, and vice chair of the Refrigeration Committee and the Society Rules Committee. Harrison was president of the Shreveport Chapter.

He has received the Distinguished Service Award.

Harrison received a Bachelor of Science in industrial engineering from the University of Arkansas.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration (HVAC&R) to serve humanity and promote a sustainable world.

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Biographical Sketch

Gordon Holness, P.E., Fellow ASHRAE, Life Member
2008-09, President-Elect
American Society of Heating, Refrigerating
and Air-Conditioning Engineers

Gordon V. R. Holness, P.E., Fellow ASHRAE, Life Member, is a consulting engineer, Grosse Pointe Shores, Mich.

As the Society's president-elect, Holness is a member of the Board of Directors and the Executive Committee and chairs the President-Elect Advisory Committee, Members Council and the Advocacy Committee.

"ASHRAE is truly a unique technical organization in the breadth and depth of technical information and research that is generated to serve the HVAC&R industry," Holness said. "We are fortunate to have a tremendous cadre of volunteers who, with great staff support, develop all of our Handbooks, guidelines, standards and design guides to help fulfill our mission. Funding raised by our members lets us develop research programs that help keep us on the leading edge of new

technologies. The technical programs put on at our meetings, together with the significant educational programs developed through the ASHRAE Learning Institute, help spread these new technologies to the industry. Our support of student activities also encourages new engineering talent to join the industry. Put all together with the training and peer interaction provided by participation in ASHRAE, and you have a world of opportunity available in and through the Society."

Holness is chair of the Steering Committee on Building Information Modeling and Interoperability and the Society representative on the building SMART Alliance and the Advanced Energy Design Guide Steering Committee, and is a member of the Headquarters Building Renovation Committee. He formerly served on the Board of Directors as treasurer, vice president and director-at-large.

Holness has received the Exceptional Service Award, the Distinguished Service Award, the Journal Paper Award and three ASHRAE Technology Awards.

Born and educated in England, Holness worked in a London consulting engineering practice for many years before immigrating to Canada. There he worked in a mechanical/electrical consulting engineering company for several years before moving to Detroit, where he worked for the renown architectural and engineering organization, Albert Kahn Associates Inc., serving as chief mechanical engineer, vice president, treasurer and president, before retiring as chairman emeritus after 32 years for the company.

He is a registered mechanical engineer, licensed to practice in 42 states and four provinces. He also is a chartered engineer in the United Kingdom.

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arts and sciences of heating, ventilation, air conditioning and refrigeration (HVAC&R) to serve humanity and promote a sustainable world.

Biography

Vijay K. Gupta, P.E.
Fellow ASHRAE
Chief Mechanical Engineer
Office Design and Construction Programs
GSA Public Buildings Service
U.S. General Services Administration

Vijay Gupta has over 40 years of professional experience and leadership in the building design and construction industry. As Chief Mechanical Engineer, he spearheads GSA's HVAC Excellence initiative, an integral part of PBS's Design Excellence Program, which provides quality work environments for over a million federal employees.

Mr. Gupta began his career at GSA in 1974 and during his 33 years has been a tireless advocate for improving customer satisfaction, functionality, and energy efficiency in federal buildings. He leads a team of private sector experts in conducting HVAC Excellence Quality Assurance Reviews of GSA facilities. The team share their findings and insights relating to the proper design, construction and maintenance with project managers, design team members, and related experts. This review process leads to the enhancement of indoor air quality, thermal comfort, safety and security, operations and maintenance and energy efficiency and significantly improves customer satisfaction.

Lessons learned from managing a ten-year program of PBS Post Occupancy Evaluation of GSA projects was the impetus for Mr. Gupta's creating a network of HVAC Advocates within all of GSA's regions. The Advocates participate in bi-annual HVAC Excellence Workshops in which public and private experts share information and address challenging issues. Building envelope, energy conservation, underfloor air distribution, mold and moisture control are among the numerous topics that impact HVAC systems and building functionality. Mr. Gupta's HVAC Excellence programs also contribute to the continual updating of the "*Facilities Standards for the Public Buildings Service, PBS P-100, "* for which he is responsible.

Mr. Gupta holds degrees in both mechanical and civil engineering and has been honored by numerous industry, government and civic organizations including: the National Institute of Building Sciences, U.S. Department of Energy, National Society of Professional Engineers, U.S. Jaycees and local civic associations.

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James E. Woods, Ph.D., P.E., is the Executive Director of The Building Diagnostics Research Institute, Inc., in Chevy Chase, Maryland. In 1997 he retired as the William E. Jamerson Professor of Building Construction at Virginia Polytechnic Institute and State University. Previously, he served as Senior Engineering Manager and Senior Staff Scientist at Honeywell, and was Professor of Mechanical Engineering and Architecture at Iowa State University. He has over 45 years experience in energy and environmental analyses, and has been responsible for more than 25 research projects and 200 investigations related to indoor environmental quality and human responses in residences, office buildings, public assembly and monumental buildings, hospitals, schools, laboratories, and commercial aircraft. He has authored or co-authored six books, more than 200 technical papers and is the co-holder of two patents. He has served as a consultant or advisor to many private and public agencies, including design engineering and architectural firms, insurance companies, law firms, utility companies, state energy agencies, the U.S. General Services Administration, the U.S. Department of Energy, the National Institute of Building Sciences, the National Institute of Standards and Technology, the U.S. Environmental Protection Agency, the U.S. Department of State, the Architect of the Capitol, the National Energy Management Institute, the National Center for Energy Management and Building Technology, the American Hospital Association, the American Lung Association, and the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE).

- From 1991 to 2001, Dr. Woods consulted with Architect of the Capitol, Washington, D.C., on Evaluation of Indoor Air Quality in the Capitol Complex. During that time, he led teams that developed protocols for evaluation, and conducted seminars and training sessions. He was the principal investigator on several specific incidences that occurred during that period.
- Since 2004, he has served as an HVAC Excellence Review Team member for the U.S. GSA, and in 2006 was appointed to the GSA National Register of Peer Professionals. During this period Dr. Woods has reviewed more than 30 designs for new and renovation projects for GSA.
- In 2005 and 2006, he served as a member of a team assembled by the National Institute of Building Sciences to conduct physical security assessments for VA medical centers.
- Since 2007, he has a member of a team assembled by the National Institute of Building Sciences to conduct post-occupancy evaluations of GSA facilities.

Dr. Woods is an ASHRAE Fellow and Life Member. He has chaired and served on numerous ASHRAE committees related to indoor air quality, environmental health, industrial air conditioning, physiology and human environment, thermal conditions for human occupancy, and ventilation and infiltration requirements. He has served as a Director-at-Large of ASHRAE and as chairman of the ASHRAE Presidential Ad Hoc Committee on Building Health and Safety Under Extraordinary Incidents. Dr. Woods has served as the ASHRAE representative to The Infrastructure Security Partnership (TISP) where he chaired the TISP Standards Subcommittee. He has served on the ASHRAE Standards, Environmental Health, and Building Safety and Security Committees. He is currently a member of the Guideline Project Committee (GPC 29P) that is developing the new ASHRAE *Guideline for Risk Management of Public Health and Safety in Buildings*, and is the Chairman of the Technical Resource Committee on Underfloor Air Distribution Systems.

He has testified in Senate and Congressional Hearings five times in the last 15 years regarding research needs for building environments, and has served as an expert witness in 29 administrative hearings and various court cases, including 15 depositions and six jury trials regarding environmental control, indoor air quality, and occupant exposure within buildings.

Dr. Woods is a Founding Member of the International Society of Indoor Air Quality and Climate, chaired the Organizing Committee for the international conference “Healthy Buildings/Indoor Air Quality 97" at Natcher Center, and is a Member of the International Academy of Indoor Air Sciences. He has served on the Science Advisory Board for the USEPA, on the Technical Advisory Committee for the American Lung Association, on the Science Advisory Board for the Center for Indoor Air Research, as Reviewer Panels for the National Science Foundation and for the Centers for Disease Control, and on several committees of the National Research Council.

Dr. Woods received his M.S. in Physiological Sciences (1971) and his Ph.D. in Mechanical Engineering (1974) from Kansas State University, and his B.S. in Mechanical Engineering (1962) from the University of New Mexico. He has maintained his professional registration as a Mechanical Engineer in Iowa since 1978.

Martin J. Weiland, P.E.
Biographical Sketch

Martin Weiland is a Mechanical Engineer at GSA's Center for Federal Buildings and Modernizations in the Office of the Chief Architect/Construction Programs. Martin is involved in numerous new construction and modernization projects, particularly those that are focused on mechanical and electrical upgrade, and commissioning/recommissioning of buildings.

Previous to employment at GSA, Martin worked for the American Society of Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE) as Manager of Government Outreach in Washington, DC, and Manager of Technical Services in Atlanta, GA.

Martin has worked as a facilities director and construction project manager for Charlotte County, Florida, as energy manager for Georgetown University, and as a building mechanical/ plumbing/fire system designer for Leo A. Daly Co. He holds a B.S. in Mechanical Engineering and B.A. in Studio Art from Bucknell University, and is a registered professional engineer in Virginia and Florida.

Curriculum Vita

Stuart L. Knoop, FAIA
Oudens Knoop Knoop + Sachs Architects
Chevy Chase, MD
May 8, 2008

A co-founder of Oudens + Knoop Architects PC in 1970, Mr. Knoop has practiced architecture for over forty-two years. He graduated with honors from Carnegie Mellon University and was awarded a Fulbright Scholarship to the Architectural Association School of Architecture in London, England.

Mr. Knoop has been a principal-in-charge of a wide variety of projects for public and private clients in the United States and overseas. These have included planning and design of medical facilities for such institutions as the Sibley Memorial Hospital, Georgetown University Hospital and Washington Hospital Center in the Nation's capital, the Alexandria Hospital and Martha Jefferson Hospital in Virginia and Audubon Hospital in Louisville, KY.

Mr. Knoop's public work includes over seventy projects for the Office of Overseas Buildings Operations worldwide. He has been Principal-in-Charge of master plans for the National Institutes of Health at the main Bethesda, MD campus and at the Poolesville, MD, Animal Center, Rocky Mountain Laboratories, and Frederick, MD National Cancer Institute. Mr. Knoop has also worked with GSA National Capital Region and Region 3, the Walter Reed Army Medical Center, and other federal agencies.

Mr. Knoop has provided consultation to GSA including peer reviews of proposed new buildings and post-occupancy evaluations of recently completed buildings. He has consulted to the NIH, Walter Reed Army Medical Center and universities throughout the country on physical security design especially for research facilities with bio-containment facilities. He also consulted to the National Center for Energy Management and Building Technologies at Penn State University on tools and methods that will increase the resiliency of buildings against intentional and accidental airborne contaminant releases.

Mr. Knoop has served on committees of the National Research Council. including Committee on the Embassy of the Future, the Committee for Transfer of Blast Mitigating Technologies from Military to Civilian Applications, the Committee to Review the ISC Security Criteria as Chairman and The Committee on Protecting Occupants and Operations of DoD Buildings from Biological and Chemical Threats.

Patrick J. Fee, Director Building Operations and Maintenance

GSA/PBS
Director, Building Operations and Maintenance Division since June 2004.

EDUCATION:
B.S. in General Business, April 1997, The University of the State of New York.

Over twenty eight years of experience in facilities management, operations, maintenance, engineering and construction.

LB&B ASSOCIATES INC
DIVISION MANAGER FOR FACILITIES
Responsible for the proper and profitable management of facility service contracts throughout the country, primary customer the United States General Services Administration.

UNICCO SERVICE COMPANY
Title: DIRECTOR OF FACILITIES OPERATIONS
Responsible for seven facilities service contracts in the Mid-Atlantic region.

UNICCO SERVICE COMPANY
Title: PROJECT MANAGER
National Academy of Sciences, responsibilities included the startup of a contract to provide operations, maintenance, mail, security, transportation and custodial services to a group of five commercial office buildings totaling approximately 500,000 square feet. Mitre Corporation, responsible for a contract to provide operations, maintenance, mail, warehouse and custodial services.

OGDEN SUPPORT SERVICES
Title: SITE MANAGER
Responsible for a service contract, which provided complete facilities management, to the CIA Headquarters campus.

Title: DEPUTY SITE MANAGER/RENOVATIONS MANAGER
Deputy Site Manager, responsible for proper operation of the site in the absence of the Site Manager, also responsible for technical and union issues in the operation of a 260-acre commercial office facility. Renovations Manager managed a several million dollar construction and renovation contract.

Title: ELECTRICAL COORDINATOR
Responsible for the proper operation and maintenance of all electrical systems for a commercial building complex (CIA Headquarters). Produced and implemented operating procedures for all major electrical systems such as Feeders, Switchgear, Turbine Generators, Diesel Generators, and U.P.S. systems.

William Holley, P.E., Ph.D. Chief Engineer

William Holley has a wide range of experience in managing the design and construction of federal facilities. During his career with the federal government he has held management level positions at several agencies to include: the Navy, the Federal Bureau of Prisons, the US Marine Corps, the Pentagon Renovation Program, and NASA. William is currently the Chief Engineer for the Office of the Design and Construction at GSA's Public Buildings Service. His duties at GSA include establishing technical requirements through updates to the "Facilities Standards for the Public Building Service", directing the cost management program, managing the security and seismic programs, providing design quality assurance reviews, and providing technical expertise to construction projects.

William has BS in Civil Engineering from Virginia Tech., a Masters in Engineering Administration from George Washington University, and a Ph.D. in Public Policy from George Mason University. He is a registered professional engineer licensed in Virginia.

Earle Kennett, Vice President, NIBS

Earle Kennett has managed and directed hundreds of projects in architecture and engineering as Vice President at the National Institute of Building Sciences (NIBS) and past Administrator for Research for the American Institute of Architects (AIA).

As Vice President at NIBS, he manages a program concerned with incorporating a large number of design and construction criteria on a web based information system. This system, the Whole Building Design Guide (WBDG) and Construction Criteria Base (CCB) is an innovative concept in information use in the construction industry. It is the first such system in the construction industry and its growth has been dramatic. The system presently has over 200,000 users and 1,000,000 document downloads on a monthly basis, involves over 15 federal agencies and has become the sole portal for the distribution of uniform facility criteria for the military services. The NIBS Consultative Council, the International Alliance for Interoperability (IAI), the Buildings and Mold Alliance (BMA), the Facility Information Council (FIC), the National CAD Standard, the National BIM Standard, the Building Enclosure Technology and Environmental Council (BETEC) and Facility Maintenance and Operations Committee (FMOC) are under his direction.

Mr. Kennett also presently manages a number of technical programs including contracts with the Department of Veterans Affairs, NASA, Department of Energy; the Department of Defense, the Naval Facilities Engineering Command, the Army Corps of Engineers, the Air Force and the General Services Administration.

Before coming to NIBS Mr. Kennett was Administrator for Research at the American Institute of Architects, where he managed various large and complex building research projects including managing the development of the energy professional development program for the American Institute of Architects, which was the largest individual program the AIA had embarked upon.

He received his Bachelor of Architecture from the University of Tennessee and has taught a range of technical architectural courses at the University of Maryland and the Washington-Alexandria Center for Virginia Polytechnic Institute and State University.

Edward E. Faircloth

Mr. Faircloth began his construction career in 1965 and has been involved with the construction industry for more than 44 years. He has held such positions as steamfitter, job foreman, general foreman, superintendent, project engineer and project manager. He is currently the Senior Project Manager for the NASA – Johnson Space Center project. With a staff of over 30 personnel, he is responsible for the planning and executing all aspects of field construction on the project; keeping over 40 different types (design, constuction, and post-construction, maintenance) of projects upholding standards through quality assurance; ensuring that the structures are built to specification. He and his team are responsible to NASA for monitoring the direction of the field supervision of the various general contractors and their sub-contractors work, field engineering and layout, safety supervision and coordination of punch list and turnover. He has completed Certification of one LEED project and has an additional 7 LEED projects registered with the USGBC.
Ed is presently serving as President of the Board of Directors for the Building Commissioning Association. He is also a LEED Accredited Professional through the USGBC.

Alan K. Pride, CxA, CMRP, Member ASHRAE

Alan is a Certified Maintenance and Reliability Professional (CMRP), and a certified Commissioning Authority (CxA) and has been part of commissioning teams in Europe and Africa. He served as a nuclear test engineer at Charleston Naval Shipyard where he was responsible for the post overhaul testing of all propulsion systems.

Alan has performed maintenance reviews, condition assessments, and Reliability Centered Maintenance (RCM) implementation for over 150 facilities world – wide. He has worked extensively with many Fortune Five Hundred companies as well NASA and the Department of State. He is the principal or coauthor of numerous papers as well as the Reliability Centered Maintenance Guides for NASA, Department of State and two pharmaceutical companies. In addition, he has been a speaker and/or instructor on RCM and other maintenance related issues at multiple national and international conferences.

Alan retired a year and half ago from his position as an Associate Director, in the Office of Facilities Engineering and Operations at the Smithsonian Institution.

Alan holds a B. Sc. in physics from The Citadel and is a former nuclear submariner.

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J. Michael Galway, PE, CPD, LEED©AP

Mr. Galway is a Principal with the Integral Group, an Engineering Consulting Firm with offices in San Francisco, CA, Raleigh, NC, Richmond, VA, and Washington, DC. Mr. Galway is registered as a Professional Engineer and is an ASHRAE Member. He is Certified in Plumbing Design and is a LEED© Accredited Professional. He brings over 27 years of experience in building design for a variety of building types and clients including federal, military, state and local governments, private development, historic restoration and renovation projects, healthcare and laboratory projects, educational facilities, hospitality, multi-family residential, commercial, high-rise and light industrial buildings. In addition to his mechanical engineering design experiences, Mr. Galway has held significant project responsibilities including master planning, facility "do-diligence" studies, facility evaluations, technical reviews, LEED and sustainable implementation, energy analyses, commissioning, construction administration, and he has performed numerous quality assurance and quality control reviews for the GSA, the National Institutes of Health (NIH), the Smithsonian Institution, and others. Mr. Galway has for the past five (5) years participated in the review of Courthouses, Federal Office Buildings, and Border Stations as one of GSA's HVAC Design Excellence Peer Reviewers.

Ronald J. Zimmer, CAE
CABA President & CEO

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Ron Zimmer, President & CEO of the Continental Automated Buildings Association (CABA), is committed to achieving the organization's vision:

> ***"The knowledge-based forum for industry leaders who advance the use of technology and integrated systems in the global home and building industry."***

Mr. Zimmer joined CABA in 1997 working with industry leaders who promote integrated systems and home/building automation throughout the world. CABA's members include manufacturers, dealers, installers, service providers, energy utilities, builders, consultants, research organizations, publishers, educational institutions, governments, associations and content providers.

In addition to working closely with the CABA Board of Directors, Ron is actively involved with a number of industry Committees/Councils including the CABA Intelligent & Integrated Buildings Council, CABA Connected Home Council, Intelligent Buildings Leadership Forum Advisory Board, Building Intelligence Quotient Advisory Board and Life-Cycle Costs Analysis Advisory Board.

He was instrumental in establishing the CABA XML and Web Services Committee (oBIX), which now resides with OASIS. He was also on the transition team that integrated the Internet Home Alliance into CABA, which is now known as CABA's Connected Home Research Council. He is also a member of the organizing committee for the National Taiwan University of Science and Technology Intelligent Buildings Conference 2009.

Ron is a Certified Association Executive with over 25 years of Association Management experience.

He has authored a number of articles and documents including, "Smart Communities: A Concept Paper," and he regularly makes presentations on integrated buildings and home/building automation at industry events.

Stephen Selkowitz

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Stephen Selkowitz is Department Head, Building Technologies Department, Lawrence Berkeley National Laboratory, where he manages 70 technical staff in a building science R&D program encompassing Windows and Daylighting Systems, Lighting Systems Research, Simulation Research, Commercial Building Performance, Demand Response Research and High Tech Buildings.

Selkowitz has over 30 years of experience in building energy performance and sustainable design, with an emphasis on research, development and deployment of energy efficient technologies and design practices. Projects range from basic materials research for advanced façades and daylighting, to development of new energy simulation tools for integrated building design and operations, and from near term demonstrations of emerging technologies to research for a new generation of "zero energy" or "carbon-neutral" buildings.. The program balances a state-of-the-art research effort with an aggressive technology transfer effort so that R&D results are effectively adopted by the building industry. Selkowitz participates in a wide range of building industry, government, and professional activities in the U.S. and overseas. He is a frequent invited speaker to national and international audiences on a variety of topics related to building energy efficiency, zero energy building design, green buildings, sustainable design and the role of buildings energy use in addressing climate change. He authored/co-authored over 170 publications, 3 books and holds 2 patents. His research teams have won several R&D 100 awards and he was the recipient of the 2002 ACEEE Champion of Energy Efficiency Award. Before joining LBNL he was a principal in a consulting engineering firm and taught courses in Environmental Controls and Alternative Energy Systems.

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Kenneth M. Schram, PE, LEED® AP

Associate Partner

Mr. Kenneth Schram, PE, is a Project Manager and Supervising Engineer at Syska Hennessy Group with 20 years of experience in the design of HVAC and plumbing/fire protection systems. Over the course of his career, he has provided designs for the renovation and new construction of major federal, aviation, commercial, industrial, and institutional facilities located in the US and abroad. Recognized in the industry for his experience and knowledge, Ken serves as a GSA HVAC Excellence Quality Assurance Reviewer and was asked to help write Chapter 5 (Mechanical Engineering) and Appendix A6 (Energy Analysis) of the most recent edition of the Facilities Standards for the Public Buildings Service PBS P-100.

GSA HVAC Excellence Reviewers are tasked with providing insight and advice to those responsible for the project so that the GSA's goals of indoor air quality, thermal comfort, safety and security, energy efficiency, ease of operations and maintenance and customer satisfaction are delivered. Understanding the broader interactions between the form, function, and construction of facilities are required to achieving these goals.

Ken's work experience in producing and managing designs for the federal government spans many agencies including the U.S. Department of State, the Smithsonian Institution, the U.S. Army, U.S. Navy, NASA, and the GSA. While there are common traits between the various agencies, each of them have specific requirements to develop facilities and carry their individual missions forward. The types of projects include new construction and renovation work in office buildings, museum, assembly and convention halls, laboratories, sewage treatment facilities, Corps of Engineers water control and treatment facilities, an electroplating facility, and all building types at over 25 embassies and consulates around the world.

Much of the work in the past 10 years has also involved mechanical and technical security systems designs supporting the increased goals of strengthened physical security designs. Bringing this experience forward, Ken was also a speaker at the 2003 GSA Workshop in Denver to present the security design considerations of HVAC systems.

Alan Edwards
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Mr. Alan Edwards is the Program Manager responsible for the Federal Prison Industries (FPI) renewable energy program. The FPI renewable energy program business plan calls for a 125 MW production capacity for PV panels. As Program Manager, Mr. Edwards is responsible for all business related functions as well as a large scale vocational training and industrial education certification program for inmates. Mr. Edwards oversees all interagency agreements between FPI and other federal agencies in addition to working with private sector integrators and ESCO's for the design, construction and installation of PV projects. Mr. Edwards' vision is to present federal agency customers with turn key PV solutions as well as to graduate as many inmates as possible through the education program. In addition to assisting agencies with meeting the federal renewable energy mandates, Mr. Edwards' inmate education program is designed to teach inmates contemporary marketable job skills which have proven to significantly reduce inmate recidivism.

Mr. Edwards work experience includes working for DOD as a High Voltage Lineman, Utility Shop Planner with a promotion to High Voltage Supervisor at the Marine Corps Base Camp Pendleton. During this time, Mr. Edwards was tasked with improving government efficiency in energy related procurements and was recognized by DOD for his performance.

Mr. Edwards joined the Federal Bureau of Prisons (BOP) in 2000 and was promoted to the BOP's energy manager before joining FPI. While with the BOP, Mr. Edwards created an energy awareness outreach program which resulted in significant energy cost savings to the BOP. Mr. Edwards was promoted and moved to Washington DC in to lead the BOP's new energy team. Mr. Edwards, with assistance from DOE, successfully awarded numerous energy savings performance contracts. His efforts on a national level have been recognized with awards that include the 2008 Public Service Award shared by then Asst. Sec. of Energy Andrew Karsner; the 2008 DOE Champion Award; the 2007 Presidential Energy Award, and the 2006 DOE Energy/Water Management Award.
In addition to his duties with FPI, Mr. Edwards is currently assisting the US Dept of State, DOD (Army), BLM, DOE/FEMP, IRS, USPS and all Justice Components in energy savings projects and energy financing concepts.

Mr. Edwards memberships include:
DOE ESPC steering committee, member
World Energy Council, member
UN Framework Climate Change, member

Charlie Hart, P.E.
Director of Design and Construction
General Services Administration
Public Buildings Service, Greater Southwest Region

Edward "Charlie" Hart has served as the Director of Design and Construction for the PBS Greater Southwest Region since August 2007. He is responsible for the planning, design, and construction of federally-owned buildings and facilities throughout Texas, Oklahoma, Louisiana, New Mexico, and Arkansas. He currently manages more than $1.4 Billion in capital projects, including courthouses, land ports of entry, federal office buildings, and agency field offices.

He retired as a Colonel in the Army Corps of Engineers in 2007. He served his final military assignment as the Command Engineer for the Army and Air Force Exchange Service (AAFES) where he developed the facilities master plan and constructed retail stores and fast food restaurants in Kuwait and Iraq in support of Operation Iraqi Freedom. He also initiated AAFES' involvement in sustainability best practices. Under his leadership, AAFES pioneered the LEED® NC Retail Pilot Program.

After graduating as a Distinguished Cadet from the U.S. Military Academy at West Point in 1978, he earned a Masters Degree in Civil Engineering from Stanford University, a Masters in Business Administration from Golden Gate University, a Master of Military Arts and Sciences from the Army Command and General Staff College, and a Masters in Strategic Studies from the Army War College. He is a registered Civil Engineer in California and Virginia, and an Honorary Admiral in the Texas Navy.

PROFESSOR SPIRO N. POLLALIS

Spiro N. Pollalis, PhD, MBA
http://www.gsd.harvard.edu/~pollalis
Prof. Pollalis is Professor of Design, Technology and Management at the Harvard Design School and teaches design and real estate development. His current research, supported by the private industry and the government, focuses on fulfilling client objectives through planning and design, and on sustainability of large scale projects and quality of space. He has taught repeatedly as a visiting professor in Germany, Holland, Switzerland and Greece.

Prof. Pollalis's private consulting centers on the intersection of design, technology and management. Together with PBS, he has developed the "Learning from our Legacy" program that analyzes PBS projects on multiple dimensions, including performance and fulfilling GSA's objectives. As part of this program, Prof. Pollalis has analyzed more than 25 federal buildings and courthouses, as well as client based programs, such as FBI, Census and IRS.

An engineer by training, Prof. Pollalis is management consultant to public and private real estate organizations in the US, Europe and Asia. Prof Pollalis has also a design practice "to keep his management and design consulting in perspective." His most recent design project under construction is the new Main Street Bridge in Columbus, Ohio, a signature bridge aimed to revitalize the downtown area and bring a pedestrian dimension to crossing the river.

Prof. Pollalis received his first degree from the University in Athens and his Master's and PhD from MIT. His MBA in high technology is from Northeastern University. He also has an honorary Master's degree in Architecture from Harvard. Prof. Pollalis was the founder and director of the Center for Design Informatics (CDI) at Harvard (1996-2004), dedicated to the exploration of information technology in design, both in the generation of forms as well as in enhancing the value of physical space.

Charles Hanley

Mr. Hanley is manager of the Solar Energy Systems Department at Sandia National Laboratories. He manages research and development focused on new photovoltaic components and systems with improved performance, higher reliability, and lower overall cost, in support of the US Department of Energy's efforts to make these technologies cost effective and commercially viable in the next 5 to 10 years. This research includes the modernization of the electric grid to include advanced energy management, through controls and communications, to support the eventual high penetration of renewable energy technologies into our infrastructure. Charlie manages Sandia's Photovoltaic Systems Evaluation Laboratory and the Distributed Energy Technologies Laboratory. He came to Sandia National Laboratories in 1988, and has been working in Sandia's renewable energy programs since 1994. Until 2002, Charlie managed Sandia's international renewable energy programs, through which he oversaw the implementation of more than 400 photovoltaic, wind, and passive solar energy systems in Latin America. From 2000 to 2002, Charlie served a temporary position in Arlington, Virginia, with Winrock International. He received his Bachelor of Science degree in Engineering Science from Trinity University in San Antonio, Texas, and his M.S. degree in electrical engineering from Rensselaer Polytechnic Institute, in Troy, New York.

Speaker Brief

Paul Phillips is Vice President for New Product Development for Cincinnati-based LSI Industries, a market leader in commercial LED fixtures as well as other traditional light sources. Paul has over twenty years experience leading the product design and market development for innovative lighting products. He is a member of the Illuminating Engineering Society of North America (IES) including membership in the Outdoor Environment and Roadway committees as well as several subcommittees. His degree is in Electrical Engineering from Youngstown State University.

Larry Melton

Acting Assistant Commissioner
Office of Facilities Management & Services Programs

BA in Communication, George Mason University
MS in Administration and Public Administration, Central Michigan University
Senior Executive Fellows Program, Harvard University

During 18 years with GSA, Larry has had a number of leadership roles. He managed GSA's transactional business worth $2.5 billion as Director of Reimbursable Services, served as the national spokesperson for customer service, directed strategic planning of the agency's $350 million minor construction and alterations program, and served as Senior Advisor to the Assistant Commissioner. Prior to his national role, Larry served as Director for the White House complex, providing facilities, realty, and project management services to the Executive Office of the President. In this role he managed a professional and trade workforce of nearly 300 and maintained nearly 2.1 million square feet of the most prestigious grounds in Washington, DC, including the East and West Wing and the Eisenhower Executive Office Building. Larry and his wife of 11 years have two boys, ages five and six, whom he coaches in Little League baseball.

"You don't come to work at GSA because you have to; you come to work here because you want to. I can honestly say I've grown up in this organization, and it's become more than my daily work-life – it's my extended family."

Kevin M. Powell

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KEVIN M. POWELL is the Director of Research for the General Services Administration's Public Buildings Service. Mr. Powell focuses on identifying promising building technologies, expert solutions, management policies and tools that enhance GSA's real estate operating decisions and procedures. Kevin brings nearly two decades of experience in design research and policy analysis, and is an expert in office acoustics. Kevin manages a portfolio of more than two dozen active research projects, in the areas of workplace design, post occupancy evaluation, energy efficiency, environmental performance, sustainability, and building information modeling (BIM).

Kevin has a longstanding commitment to green building design, improved energy efficiency for real estate, and smart growth policy. He received his Master's and undergraduate degrees in Architecture from the University of California at Berkeley. He has published numerous articles about acoustics, workplaces and urban design.

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Dr. Moy is the Chairman of the Executive Committee, High Performance Building Council, under the National Institute of Building Sciences. The Council is focused on the establishment of attributes, metrics, and methods of measurement to assure high performance in new building construction and retrofits of existing. Dr. Get W. Moy is also an Associate Vice President and a senior program director for federal projects for AECOM, a global design, management, and technical services firm

For over three decades, Dr. Moy has served as an engineer for various sectors of the federal government including the Navy and the U.S. Department of Defense (DoD). As the Director of Installations Requirements and Management, Dr. Moy was responsible for stewardship of Department of Defense installations worldwide. The Directorate supports military readiness and quality of life, appropriate sizing of domestic and overseas base structures, and improved installation management, while ensuring that energy and environmental mandates are met. The Directorate provides the DoD Facilities Strategic Plan, Military Construction Program, the Sustainment, Restoration and Modernization Programs, Readiness Reporting, Real Property accountability, and Utilities and Energy Management. Dr. Moy was also the functional advisor for the Department's Facilities Engineering Career Field.

Previously, Dr. Moy was Chief Engineer and Director of Planning/Base Development for the Naval Facilities Engineering Command, providing the final technical engineering authority, and leadership in the shaping of the Navy ashore facilities infrastructure. He has also served as the Assistant Deputy Under Secretary of Defense, Pollution Prevention, in the Office of the Deputy Under Secretary of Defense (Environmental Security).

Dr. Moy is the recipient of the U.S. 2007 Presidential Rank Award for Meritorious Service. Winners of this prestigious honor are recognized for demonstrating integrity, diligence, and an unyielding pledge to quality in public service. In January 2008, Dr. Moy also received the National Institute of Building Sciences President's Award, presented to individuals who have substantially improved the building process through government service. He is a Fellow in the American Society of Civil Engineers, a member of the United States Naval Institute, the Society of American Military Engineers, and the Tau Beta Pi Engineering Honor Society.

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Martin J. Weiland, P.E.
Biographical Sketch

Martin Weiland is a Mechanical Engineer at GSA's ARRA Program Management Office (PMO). Martin is involved in numerous new construction and modernization projects, particularly those that are focused on mechanical and electrical upgrade, and commissioning/recommissioning of buildings.

Previous to employment at GSA, Martin worked for the American Society of Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE) as Manager of Government Outreach in Washington, DC, and Manager of Technical Services in Atlanta, GA.

Martin has worked as a facilities director and construction project manager for Charlotte County, Florida, as energy manager for Georgetown University, and as a building mechanical/ plumbing/fire system designer for Leo A. Daly Co. He holds a B.S. in Mechanical Engineering and B.A. in Studio Art from Bucknell University, and is a registered professional engineer in Virginia and Florida.

Michael E Ragan
Biographical Sketch

Michael Ragan is an Electrical Engineer at GSA's Office of the Chief Engineer (PCBB). Mike is involved in numerous projects to include the rewrite of the P!00 to the review of numerous public building design projects.

Previous to employment at GSA, Mike worked for fourteen years as a general/electrical engineer and project manager at the Department of Justice in Washington, D.C. Responsibilities included the design and installation of security, SCIF, electrical, environmental, and mechanical systems to support various Justice agencies and functions. Mike was part of the original design/construction team for the $172M modernization of the MAIN Department of Justice between 1996 till 2007.

Mike also worked for IBM in environmental/chemical engineering and design. He was responsible for the construction of complex environmental and controls systems associated with semiconductor manufacturing. He also insured compliance with Federal and State environmental regulations and associated reporting.

Mike's career included working for numerous divisions within the Department of Agriculture's Rural Electrification Administration. These included electrical power plant design, utilization of renewable energy resources, engineering standards division, and in the area office reviewing making loans to rural electrical cooperatives. Mike has written numerous electrical industry design guides and publications on electrical substation design and oil spill prevention.

He spent 32 years in the Coast Guard Reserve as a Boarding Officer and small boat engineer. Responsibilities included boating safety enforcement, oil spill investigation and clean up, marine environmental protection, and drug interdiction. Mike was honored with "Enlisted Coast Guardsman of the Year" in 1996.

Mike has been on the Board of Directors for an electrical cooperative since 1991. Presently serves as Secretary of the Board, and chairman of Audit and Facilities Committees.

Mike referees all levels of basketball and soccer for more than 30 years.